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PN - JP62041709 A 19870223

TI - ADSORPTION AND SEPARATION OF CARBON DIOXIDE

AB - PURPOSE: To readily adsorb and separate carbon dioxide from a mixed gas containing the carbon dioxide, by using carbon black in which an amine is bonded or adsorbed on the surface of particles thereof as an adsorbent.

- CONSTITUTION: For example, an amine is bonded to carbon black by a method for reacting the amine with -COOH groups on the surface thereof to bond the amine thereto, etc. The resultant adsorbent in which the amine is bonded or adsorbed is capable of adsorbing carbon dioxide at ordinary temperature under ordinary pressure and releasing readily the adsorbed carbon dioxide and further repeating the adsorption and release without deteriorating the performance thereof.

I - C01B31/20 ; B01D53/02

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